



UNITED STATES PATENT AND TRADEMARK OFFICE

NY
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/445,102	11/30/1999	KENJI UCHIYAMA	9319S-000112	9462

7590 06/19/2003

HARNESS DICKEY & PIERCE PLC
PO BOX 828
BLOOMFIELD HILLS, MI 48303

EXAMINER

DUONG, TAI V

ART UNIT PAPER NUMBER

2871

DATE MAILED: 06/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/445,102

Applicant(s)

UCHIYAMA, KENJI

Examiner

TAI DUONG

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 April 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-7, 13 and 14 is/are allowed.
- 6) ☐ Claim(s) 8 and 10-12 is/are rejected.
- 7) ☒ Claim(s) 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 02 April 2003 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

The objection to the specification and the rejection under 35 U.S.C. 112 are withdrawn in view of Applicant's remarks and amendment to the claims.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kishigami.

It is noted that amended claim 8 is broader in scope than that of original claim 8 because of the omission of the term "plurality", the arrangement of the wirings (external terminals) with respect to the terminals formed on the first side of the substrate, and the arrangement of the compensation members with respect to the remainder of the terminals formed on the first side of the substrate. Without the recited structural cooperative relationship of the compensation member with respect to the other elements recited in the amended claim, the term "compensation" is considered by the examiner as a mere label and is not given patentable weight.

Kishigami discloses in Fig. 9 a liquid crystal device (LCD), similar to that of the instant claim, comprising a LC panel 2 having an IC chip 3a formed on one substrate 7 of the LC panel, a plurality of external-connecting terminals 9b, a plurality of substrate-side terminals 4b formed on the first side of the substrate 4, a plurality of wirings 4a formed on the second side of the substrate, and a compensation member 4d formed on the second side of the substrate. Kishigami discloses that the substrate 4 is bonding to

Art Unit: 2871

the terminals of the LC panel (col. 1, line 13 – col. 2, line 28). Thus, the only difference between Kishigami's Fig. 9 device and that of the instant claim is that Kishigami is silent about an adhesive material being used for bonding the LC panel and the substrate 4. However, Kishigami discloses that it was known to employ an anisotropic adhesive material for bonding (col. 5, lines 45-67). Thus, it would have been obvious to a person of ordinary skill in the art to employ an anisotropic conductive adhesive material as the bonding material in Kishigami's Fig. 9 device for securely electrically-connecting the substrate 4 to the LC panel.

Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-7 are allowable for the same reasons set forth in the last Office action.

Claims 9, 13 and 14 are allowable because none of the prior art of record discloses or suggests the features "a compensation member formed on the second side of the substrate, the compensation member having substantially the same thickness as the wirings (which are formed on the second side of the substrate)".


The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Takubo et al disclose an insulating layer with a selected thickness being formed on the wirings for adjusting the characteristic impedance of the wirings.

Art Unit: 2871

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication should be directed to Tai Duong at telephone number 703 308-4873.



KENNETH PARKER
PRIMARY EXAMINER



TVD

06/03